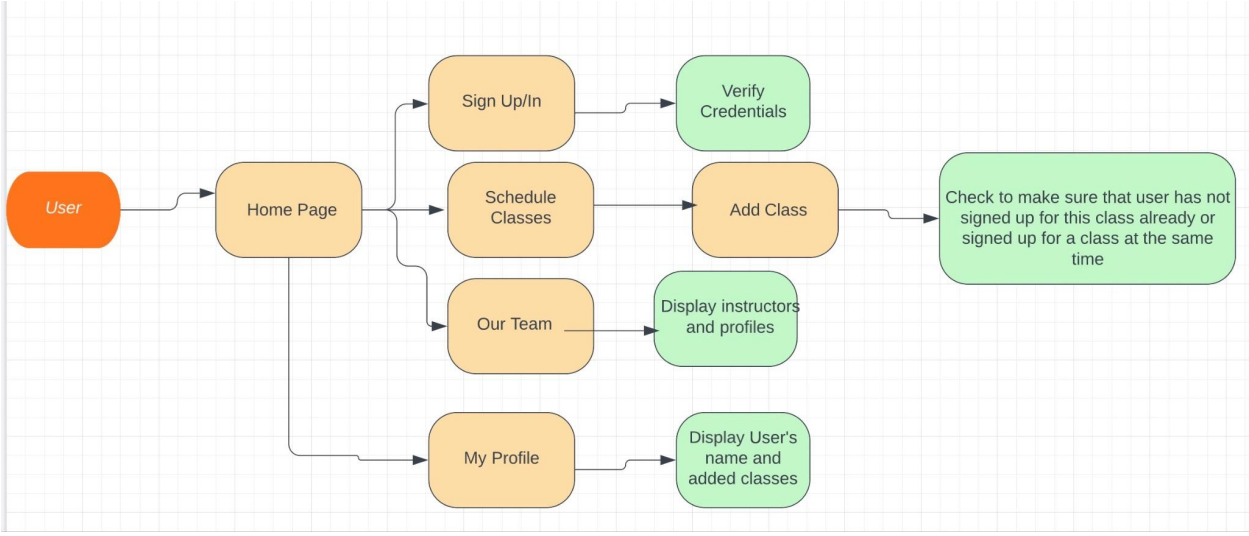
Criterion B: Design

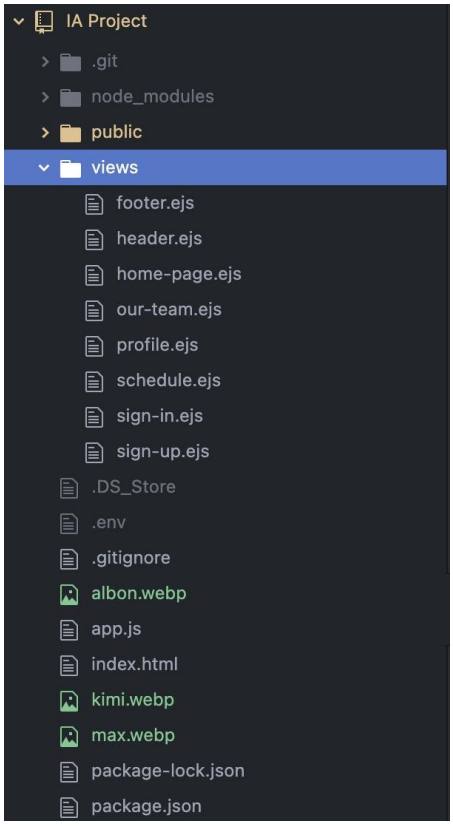
User Experience Diagram:



This flow chart describes the different UI elements that the user can interact with and what backend functionality that triggers. There are six main pages: home page, sign up, sign in, schedule classes, our team, and my profile. Each of these pages has several layers of functionality that utilize the MongoDB databases. I came up with this rough sketch during my interview with the client (Criterion B Record of Tasks)

Backend:

Screenshot of file structure



The app.js file is the main file that connects the javascript, HTML, and MongoDB together. In the views folder there is an ejs file for each page of the website. The app.js file handles post and get requests from every page by either returning information to the ejs files or updating the database. The app.js file relies heavily on asynchronous functions to return data or update the database. Asynchronous functions allowed me to be able to retrieve information from database queries and manipulate or maneuver the information.

MongoDB:

I mainly used MongoDB to hold two separate databases: one for storing user information(usersDB) and one for storing class information(schedulerDB). usersDB contains the user's IP address, the classes they have signed up for, their memberID, and their password. The schedulerDB has a separate document for each class, and each document contains the number of spots left, the title, date, start and end time, an image file, and a short description of the class. I used both of these databases to verify the user's credentials and allow users to sign up for classes.

Word Count: 266